

10-12-01

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Please type a plus sign (+) inside this box ☒

PTO/SB/05 (11-00)

Approved for use through 10/31/2002. OMB 0651-0032  
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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**UTILITY  
PATENT APPLICATION  
TRANSMITTAL**

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No.	476-1978.1
First Inventor	Kitchener
Title	MIMO Wireless Communication System
Express Mail Label No.	EL 761 854 611 US

**APPLICATION ELEMENTS**

See MPEP chapter 600 concerning utility patent application contents.

ADDRESS TO:

Assistant Commissioner for Patents,  
Box Patent Application  
Washington, D.C. 20231

- |   |   |
|---|---|
| <p>1. <input checked="" type="checkbox"/> Fee Transmittal Form (e.g., PTO/SB/17)<br/>(Submit an original, and a duplicate for fee processing)</p> <p>2. <input type="checkbox"/> Applicant claims small entity status.<br/>See 37 CFR 1.27.</p> <p>3. <input checked="" type="checkbox"/> Specification [Total Pages <b>25</b>]<br/>(preferred arrangement set forth below)</p> <ul style="list-style-type: none"><li>- Descriptive title of the invention</li><li>- Cross Reference to Related Applications</li><li>- Statement Regarding Fed sponsored R &amp; D</li><li>- Reference to sequence listing, a table, or a computer program listing appendix</li><li>- Background of the Invention</li><li>- Brief Summary of the Invention</li><li>- Brief Description of the Drawings (if filed)</li><li>- Detailed Description</li><li>- Claim(s)</li><li>- Abstract of the Disclosure</li></ul> <p>4. <input checked="" type="checkbox"/> Drawing(s) (35 U.S.C. 113) [Total Sheets <b>14</b>]</p> <p>5. Oath or Declaration [Total Pages <input type="text"/><br/>a. <input type="checkbox"/> Newly executed (original or copy)<br/>b. <input type="checkbox"/> Copy from a prior application (37 CFR 1.63(d))<br/>(for continuation/divisional with Box 18 completed)<br/>i. <input type="checkbox"/> <b>DELETION OF INVENTOR(S)</b><br/>Signed statement attached deleting inventor(s)<br/>named in the prior application, see 37 CFR<br/>1.63(d)(2) and 1.33(b).</p> <p>6. <input type="checkbox"/> Application Data Sheet. See 37 CFR 1.76</p> | <p>7. <input type="checkbox"/> CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)</p> <p>8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)</p> <ul style="list-style-type: none"><li>a. <input type="checkbox"/> Computer Readable Form (CRF)</li><li>b. Specification Sequence Listing on:<ul style="list-style-type: none"><li>i. <input type="checkbox"/> CD-ROM or CD-R (2 copies); or</li><li>ii. <input type="checkbox"/> paper</li></ul></li><li>c. <input type="checkbox"/> Statements verifying identity of above copies</li></ul> |
|---|---|

**ACCOMPANYING APPLICATION PARTS**

- |   |   |
|---|---|
| 9. <input type="checkbox"/> Assignment Papers (cover sheet & document(s))   |   |
| 10. <input type="checkbox"/> 37 CFR 3.73(b) Statement (when there is an assignee)   | <input type="checkbox"/> Power of Attorney                  |
| 11. <input type="checkbox"/> English Translation Document (if applicable)   |   |
| 12. <input checked="" type="checkbox"/> Information Disclosure Statement (IDS)/PTO-1449   | <input checked="" type="checkbox"/> Copies of IDS Citations |
| 13. <input type="checkbox"/> Preliminary Amendment  |   |
| 14. <input checked="" type="checkbox"/> Return Receipt Postcard (MPEP 503)<br>(Should be specifically itemized)                                     |   |
| 15. <input type="checkbox"/> Certified Copy of Priority Document(s)<br>(if foreign priority is claimed)   |   |
| 16. <input type="checkbox"/> Request and Certification under 35 U.S.C. 122<br>(b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent. |   |
| 17. <input type="checkbox"/> Other:   |   |

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No.: \_\_\_\_\_ / \_\_\_\_\_

Prior application information: Examiner \_\_\_\_\_

Group / Art Unit \_\_\_\_\_

For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.**19. CORRESPONDENCE ADDRESS**☐ Customer Number or Bar Code Labelor ☒ Correspondence address below

(Insert Customer No. or Attach bar code label here)

Name	William M. Lee, Jr.				
	Lee, Mann, Smith, McWilliams, Sweeney & Ohlson				
Address	209 South LaSalle Street				
	Suite 410				
City	Chicago	State	IL	Zip Code	60604-1202
Country	USA	Telephone	312-368-1300	Fax	312-368-0034

Name (Print/Type) Peter J. Shakula

Registration No. (Attorney/Agent)

40,808

Signature

Date

October 11, 2001

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231.

# FEE TRANSMITTAL for FY 2002

Patent fees are subject to annual revision.

Complete if Known

Application Number  
Filing Date  
First Named Inventor **Kitchener**  
Examiner Name  
Group Art Unit  
Attorney Docket No. **476-1978.1**

TOTAL AMOUNT OF PAYMENT **\$794.00**

## METHOD OF PAYMENT

1. ☒ The Commissioner is hereby authorized to charge indicated fees and credit any overpayments to:
- Deposit Account Number **12-0913**
- Deposit Account Name
- ☒ Charge Any Additional Fee Required Under 37 CFR §§ 1.16 and 1.17
- ☐ Applicant claims small entity status. See 37 CFR § 1.27
2. ☒ Payment Enclosed:
- ☒ Check ☐ Credit card ☐ Money Order ☐ Other

## FEE CALCULATION

### 1. BASIC FILING FEE

Large Entity	Small Entity	Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description	Fee Paid
101	740	201	370			Utility filing fee	740.00
106	330	206	165			Design filing fee	
107	510	207	255			Plant filing fee	
108	740	208	370			Reissue filing fee	
114	160	214	80			Provisional filing fee	
SUBTOTAL (1)							740.00

### 2. EXTRA CLAIM FEES

Extra Claims	Fee from below	Fee Paid
Total Claims <b>23</b> - 20** = <b>3</b> X <b>18.00</b> = <b>54.00</b>		
Independent Claims <b>3</b> - 3*** = <b>0</b> X <b>84.00</b> = <b>0.00</b>		
Multiple Dependent		

Large Entity	Small Entity	Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description	Fee Paid
103	18	203	9			Claims in excess of 20	
102	84	202	42			Independent claims in excess of 3	
104	280	204	140			Multiple dependent claim, if not paid	
109	84	209	42			** Reissue independent claims over original patent	
110	18	210	9			** Reissue claims in excess of 20 and over original patent	
SUBTOTAL (2)							54.00

\*\*or number previously paid, if greater; For Reissues, see above

## FEE CALCULATION (continued)

### 3. ADDITIONAL FEES

Large Entity	Small Entity	Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description	Fee Paid
105	130	205	65			Surcharge - late filing fee or oath	
127	50	227	25			Surcharge - late provisional filing fee or cover sheet	
139	130	139	130			Non - English specification	
147	2,520	147	2,520			For filing a request for <i>ex parte</i> reexamination	
112	920*	112	920*			Requesting publication of SIR prior to Examiner action	
113	1,840*	113	1,840*			Requesting publication of SIR after Examiner action	
115	110	215	55			Extension for reply within first month	
116	400	216	200			Extension for reply within second month	
117	920	217	460			Extension for reply within third month	
118	1,440	218	720			Extension for reply within fourth month	
128	1,960	228	980			Extension for reply within fifth month	
119	320	219	160			Notice of Appeal	
120	320	220	160			Filing a brief in support of an appeal	
121	280	221	140			Request for oral hearing	
138	1,510	138	1,510			Petition to institute a public use proceeding	
140	110	240	55			Petition to revive - unavoidable	
141	1,280	241	640			Petition to revive - unintentional	
142	1,280	242	640			Utility issue fee (or reissue)	
143	460	243	230			Design issue fee	
144	620	244	310			Plant issue fee	
122	130	122	130			Petitions to the Commissioner	
123	50	123	50			Processing fee under 37 CFR § 1.17(q)	
126	180	126	180			Submission of Information Disclosure Statement	
581	40	581	40			Recording each patent assignment per property (times number of properties)	
146	740	246	370			Filing a submission after final rejection (37 CFR § 1.129(a))	
149	740	249	370			For each additional invention to be examined (37 CFR § 1.129(b))	
179	740	279	370			Request for Continued Examination (RCE)	
169	900	169	900			Request for expedited examination of a design application	
Other fee (specify)							

\*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) **\$0.00**

## SUBMITTED BY

Name (Print/Type)	Peter J. Shakula	Registration No. (Attorney/Agent)	40,808	Telephone	312-368-1300
Signature		Date	October 11, 2001		

**WARNING:** Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

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I hereby acknowledge  
receipt of the  
enclosed:  
New Patent Application of:  
Kitchener et al  
**MIMO WIRELESS COMMUNICATION SYSTEM**

1. Fee Transmittal Letter
2. Utility Patent Application Transmittal
3. 25 Specification Pages
4. 13 Sheets of Drawings
5. Information Disclosure Statement: Form PTO  
1449
6. Check No. 46461 for \$794.00
7. Certificate of EXPRESS MAIL
8. Return Post Card.

DUE DATE (If Any): New Application

DATE SENT: October 11, 2001  
tjb

"Express Mail" mailing label number  
EL 761 854 611 US

Date of deposit: October 11, 2001

I hereby certify that this paper or fee is being deposited with the  
United States Postal Service "Express Mail Post Office to  
Addressee" service under 37 CFR 1.10 on the date indicated above  
and is addressed to the Commissioner of Patents and Trademarks,  
Washington, D.C. 20231.

Jorge Galvan  
(Typed or printed name of person mailing paper or fee)

  
(Signature of person mailing paper or fee)